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**(54) THREE-BRANCH LINE  
3dB HYBRID CIRCUIT**

(57) Abstract:

**PURPOSE:** To improve the isolation characteristic of a three-branch line 3dB hybrid circuit, by adding capacities to the branched sections of lines and making the center frequency for degree of coupling coincident with the center frequency for isolation.

**CONSTITUTION:** This three-branch line 3dB hybrid circuit is composed of 1st lines 5 and 8 and 2nd lines 6 and 7 which are connected in series with input-and output-side lines 1 ~ 4 and lines 9 ~ 11 which are connected in parallel with the lines 5 ~ 8. By making the impedance of the 1st and 2nd lines 5 and 8 and 6 and 7 equal to the impedance of the input-and output-side lines 1 ~ 4 and adding projecting patterns 12 ~ 15 to the 1st and 2nd lines 5 and 8, and 6 and 7, in the vicinity of the branched sections of the lines 9 and 11 on the input and

output sides of the parallel three lines 9~11, the frequency for degree of coupling is made coincident with the frequency for isolation. Therefore, the isolation characteristic can be improved.

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